Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
www.acmelab.com

Client: **Selene Holdings LP**
Suite 410, 700 W. Pender Street
Vancouver BC V6C 1G8 Canada

Submitted By: Jean-Pierre Londero
Receiving Lab: Canada-Vancouver
Received: August 04, 2011
Report Date: February 21, 2012

CERTIFICATE OF ANALYSIS VAN11003671.2

CLIENT JOB INFORMATION

Project: JP Ross
Shipment ID: JR00452011
P.O. Number
Number of Samples: 122

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	122	Dry at 60C			VAN
SS80	122	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	122	Saving all or part of Soil Reject			VAN
1F02	122	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Version 2: Revised Sample ID's

Invoice To: Selene Holdings LP
Suite 410, 700 W. Pender Street
Vancouver BC V6C 1G8
Canada

CC: Keith Fowlow

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CAG196301	Sediment	0.71	19.28	13.28	69.9	39	9.3	13.8	534	3.51	4.2	0.6	5.8	3.1	22.7	1.10	1.20	0.50	85	0.55	0.100
CAG196302	Sediment	0.75	12.69	9.66	48.6	99	8.1	9.9	458	3.04	14.1	0.4	3.4	2.3	25.4	0.17	0.26	0.09	68	0.37	0.064
CAG196303	Sediment	0.61	7.34	8.73	54.6	55	8.6	10.6	380	3.22	8.1	0.4	2.1	2.6	21.9	0.08	0.22	<0.02	65	0.44	0.093
CAG196304	Sediment	0.42	6.93	6.18	43.8	38	9.0	9.2	391	2.36	4.3	0.5	2.9	3.0	24.6	0.09	0.23	0.04	50	0.46	0.102
CAG196305	Sediment	0.48	6.87	9.70	48.1	38	7.6	9.0	362	2.78	6.0	0.4	1.8	2.6	17.7	0.06	0.20	<0.02	55	0.40	0.083
CAG196306	Sediment	0.59	9.57	11.40	57.4	67	9.5	8.9	299	2.52	5.4	0.6	1.0	3.0	19.7	0.15	0.30	0.03	49	0.37	0.077
CAG196307	Sediment	0.71	6.05	10.32	43.6	35	8.0	8.3	297	2.50	5.3	0.5	0.6	2.6	18.7	0.10	0.21	<0.02	45	0.37	0.079
CAG196308	Sediment	0.31	5.92	4.77	39.6	57	12.5	7.0	249	1.86	4.6	0.5	5.5	2.8	26.5	0.12	0.30	0.09	41	0.46	0.095
CAG196309	Sediment	0.39	15.75	8.19	52.0	95	17.9	7.8	323	1.93	4.5	0.9	4.0	3.1	36.5	0.22	0.33	0.08	43	0.61	0.085
CAG196310	Sediment	0.35	12.90	7.29	51.8	79	19.2	8.7	392	1.93	4.6	0.8	1.8	2.9	28.9	0.17	0.25	0.04	42	0.46	0.097
CAG196311	Sediment	0.27	6.94	9.39	59.6	30	14.8	11.2	432	2.57	5.0	0.4	0.3	3.0	21.9	0.12	0.23	0.03	50	0.74	0.144
CAG196312	Sediment	0.35	8.45	9.25	37.1	72	18.1	6.6	98	2.52	1.2	1.4	0.6	8.0	23.5	0.04	0.11	0.14	31	0.16	0.060
CAG196313	Sediment	0.30	9.34	9.16	45.4	28	16.3	9.2	327	2.35	1.7	1.0	<0.2	7.1	31.5	0.07	0.10	0.07	35	0.37	0.095
CAG196314	Sediment	0.13	8.74	2.82	11.9	17	21.7	5.5	243	0.92	0.6	0.2	<0.2	0.7	23.7	0.04	0.05	<0.02	22	0.36	0.091
CAG196315	Sediment	0.14	5.99	3.28	15.2	13	15.0	4.5	130	0.93	0.9	0.2	<0.2	1.1	22.5	0.03	0.06	<0.02	23	0.30	0.060
CAG196316	Sediment	0.29	6.44	5.49	20.7	20	13.3	4.9	203	1.31	1.7	0.3	<0.2	1.6	17.0	0.07	0.12	0.03	28	0.35	0.076
CAG196317	Sediment	0.36	8.44	9.38	33.8	20	15.9	6.7	209	1.84	2.6	0.5	<0.2	4.0	25.3	0.05	0.12	0.03	33	0.36	0.087
CAG196318	Sediment	0.34	7.41	6.05	29.4	23	14.8	5.9	216	1.60	2.2	0.5	<0.2	3.0	23.0	0.07	0.11	0.04	31	0.33	0.081
CAG196319	Sediment	0.27	6.80	9.22	34.1	18	7.4	5.8	244	1.83	2.0	0.5	<0.2	4.1	16.0	0.05	0.11	0.04	37	0.34	0.090
CAG196320	Sediment	0.45	12.01	7.60	43.3	22	13.5	8.4	318	2.41	3.7	0.8	2.6	5.9	19.6	0.07	0.18	0.08	42	0.37	0.107
CAG196321	Sediment	0.36	8.65	7.80	33.8	21	14.4	6.4	229	1.85	2.8	0.6	13.9	3.4	25.2	0.08	0.14	0.04	35	0.40	0.099
CAG196322	Sediment	0.43	10.14	7.07	34.4	45	12.6	7.8	292	2.12	3.2	0.6	<0.2	4.6	19.4	0.05	0.12	0.12	37	0.32	0.070
CAG196323	Sediment	0.11	7.02	8.42	50.1	39	11.0	5.5	515	1.27	2.6	0.5	0.8	2.8	25.1	0.20	0.21	0.06	25	0.69	0.109
CAG196324	Sediment	0.24	7.16	7.05	56.4	47	11.7	6.3	253	1.69	3.8	0.5	1.0	3.9	24.1	0.30	0.18	0.04	35	1.92	0.219
CAG196325	Sediment	0.27	7.74	7.00	65.1	60	14.9	11.1	373	2.61	5.3	0.5	596.7	3.4	21.4	0.12	0.21	0.05	49	0.78	0.135
CAG196326	Sediment	0.44	13.12	6.93	49.6	62	19.9	8.6	292	2.00	5.5	0.8	8.4	3.2	29.6	0.13	0.28	0.09	45	0.41	0.096
CAG196327	Sediment	0.36	8.51	6.36	48.6	43	13.0	8.1	300	2.01	3.9	0.7	4.9	3.5	26.2	0.10	0.25	0.06	43	0.56	0.114
CAG196328	Sediment	0.26	6.45	9.64	51.0	32	8.4	7.0	323	2.00	4.9	0.6	3.1	4.4	19.9	0.12	0.20	0.12	31	0.42	0.106
CAG196329	Sediment	0.34	8.15	7.05	49.5	40	12.2	7.0	288	1.86	3.7	0.6	1.9	3.6	26.6	0.11	0.27	0.09	40	0.48	0.109
CAG196330	Sediment	0.35	7.11	6.35	46.6	58	10.5	6.3	249	1.72	3.3	0.6	54.7	4.0	26.4	0.10	0.23	0.09	37	0.47	0.115

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
CAG196301	Sediment	5.5	26.5	1.22	329.7	0.117	2	1.98	0.020	0.44	<0.1	3.5	0.13	<0.02	8	<0.1	0.05	6.0
CAG196302	Sediment	6.6	13.9	0.69	194.6	0.063	1	1.69	0.019	0.18	<0.1	2.7	0.07	0.03	8	0.2	0.04	4.1
CAG196303	Sediment	6.2	17.2	0.88	307.8	0.104	<1	1.70	0.018	0.35	0.1	2.7	0.10	<0.02	10	<0.1	<0.02	4.9
CAG196304	Sediment	7.6	18.8	0.70	246.3	0.082	<1	1.32	0.016	0.20	0.2	2.5	0.07	<0.02	7	<0.1	<0.02	4.0
CAG196305	Sediment	5.2	16.4	0.78	239.3	0.083	<1	1.42	0.017	0.29	<0.1	2.4	0.08	<0.02	<5	<0.1	<0.02	4.0
CAG196306	Sediment	7.8	16.6	0.68	232.5	0.065	1	1.45	0.015	0.16	0.1	2.4	0.07	0.03	17	0.2	<0.02	3.9
CAG196307	Sediment	5.9	13.2	0.63	174.8	0.057	<1	1.21	0.017	0.18	0.1	2.1	0.06	0.03	9	<0.1	<0.02	3.2
CAG196308	Sediment	9.9	19.4	0.46	196.2	0.052	<1	1.03	0.016	0.08	0.2	2.1	<0.02	<0.02	12	0.2	<0.02	3.0
CAG196309	Sediment	11.9	26.4	0.47	250.5	0.051	2	1.18	0.017	0.06	0.1	2.9	0.08	0.04	33	0.4	0.04	3.4
CAG196310	Sediment	10.2	26.7	0.48	235.7	0.045	1	1.06	0.013	0.06	0.1	2.6	0.07	0.03	31	0.3	<0.02	3.2
CAG196311	Sediment	7.5	27.3	0.81	98.6	0.043	1	1.27	0.015	0.07	0.1	2.4	0.06	<0.02	8	<0.1	<0.02	3.7
CAG196312	Sediment	34.8	25.2	0.46	134.7	0.075	<1	1.78	0.006	0.35	<0.1	2.4	0.25	<0.02	13	<0.1	<0.02	5.7
CAG196313	Sediment	23.8	26.8	0.43	112.5	0.072	<1	1.41	0.010	0.24	<0.1	2.5	0.18	<0.02	17	<0.1	<0.02	4.6
CAG196314	Sediment	3.1	34.6	0.29	95.5	0.031	<1	0.73	0.015	0.03	<0.1	1.6	0.02	<0.02	6	<0.1	<0.02	1.7
CAG196315	Sediment	3.3	25.3	0.30	85.9	0.038	<1	0.74	0.016	0.04	<0.1	1.6	0.02	<0.02	5	<0.1	<0.02	1.9
CAG196316	Sediment	5.3	24.5	0.31	90.1	0.047	<1	0.78	0.015	0.07	0.2	2.0	0.03	<0.02	<5	0.1	<0.02	2.2
CAG196317	Sediment	10.6	26.2	0.42	123.1	0.061	<1	1.07	0.015	0.16	<0.1	2.1	0.09	<0.02	<5	<0.1	<0.02	3.2
CAG196318	Sediment	9.1	24.7	0.38	122.8	0.057	<1	0.97	0.013	0.12	0.1	2.0	0.07	<0.02	9	<0.1	<0.02	2.8
CAG196319	Sediment	9.6	12.2	0.43	101.5	0.072	<1	1.10	0.014	0.25	0.1	2.1	0.10	<0.02	<5	<0.1	<0.02	3.3
CAG196320	Sediment	14.5	20.1	0.48	123.7	0.080	<1	1.31	0.013	0.31	0.1	2.4	0.15	<0.02	10	0.1	<0.02	4.0
CAG196321	Sediment	9.5	25.7	0.41	117.0	0.059	<1	1.03	0.015	0.14	0.3	2.3	0.07	<0.02	<5	0.2	<0.02	3.1
CAG196322	Sediment	10.2	21.3	0.47	109.7	0.067	<1	1.12	0.015	0.26	0.2	2.4	0.11	<0.02	6	<0.1	<0.02	3.5
CAG196323	Sediment	10.1	14.2	0.29	169.4	0.027	<1	0.86	0.012	0.03	0.2	1.7	0.05	<0.02	27	0.1	<0.02	2.4
CAG196324	Sediment	10.6	15.1	0.58	87.5	0.025	1	0.91	0.007	0.06	0.1	1.7	0.09	<0.02	13	<0.1	<0.02	2.8
CAG196325	Sediment	8.2	29.3	0.88	90.5	0.044	<1	1.34	0.015	0.07	0.2	2.7	0.06	<0.02	8	<0.1	<0.02	4.0
CAG196326	Sediment	11.2	28.3	0.47	250.9	0.053	1	1.13	0.015	0.07	0.2	2.7	0.07	0.03	21	0.3	0.03	3.4
CAG196327	Sediment	10.5	22.8	0.45	174.1	0.054	<1	1.01	0.015	0.08	0.3	2.4	0.06	0.02	14	0.2	<0.02	3.1
CAG196328	Sediment	11.1	11.4	0.44	104.0	0.030	1	0.86	0.011	0.08	0.2	1.5	0.07	<0.02	7	<0.1	<0.02	2.7
CAG196329	Sediment	11.6	20.0	0.43	176.8	0.053	<1	0.95	0.016	0.07	0.5	2.2	0.06	<0.02	15	0.2	<0.02	2.9
CAG196330	Sediment	11.2	19.1	0.42	147.8	0.051	1	0.92	0.015	0.06	0.5	2.1	0.05	<0.02	19	0.2	<0.02	2.9

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	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CAG196331	Sediment	0.32	7.15	6.13	46.8	42	11.6	6.4	302	1.69	3.3	0.7	9.1	4.1	27.0	0.09	0.21	0.07	36	0.47	0.124
CAG196332	Sediment	0.50	10.16	7.25	55.7	47	13.2	7.6	363	1.88	3.8	0.7	1.1	3.8	33.2	0.15	0.28	0.10	41	0.49	0.104
CAG196333	Sediment	0.54	9.90	6.61	56.9	44	13.5	7.9	323	1.98	4.2	0.6	4.8	3.6	33.2	0.12	0.26	0.09	42	0.48	0.098
CAG196334	Sediment	0.51	9.09	7.01	49.2	36	11.3	7.0	291	1.81	3.8	0.7	6.3	3.7	31.3	0.14	0.26	0.11	41	0.48	0.105
CAG196335	Sediment	0.80	10.30	6.28	55.4	29	7.9	9.3	368	2.36	3.5	0.5	3.4	3.3	19.3	0.08	0.18	0.09	46	0.41	0.080
CAG196336	Sediment	0.36	8.31	9.75	46.8	31	8.2	6.7	324	2.09	6.5	0.6	1.4	3.7	22.9	0.09	0.25	0.08	43	0.38	0.089
CAG196337	Sediment	0.55	16.11	7.35	61.8	84	16.9	10.7	470	2.55	6.6	0.9	1.9	3.4	26.7	0.18	0.34	0.26	47	0.40	0.079
CAG196338	Sediment	0.76	27.22	6.81	52.5	83	11.2	10.0	240	1.97	2.5	1.4	0.6	2.9	22.5	0.12	0.23	0.14	36	0.42	0.065
CAG196339	Sediment	0.56	9.65	11.63	42.9	43	8.7	8.0	517	1.74	3.8	0.5	2.6	2.9	21.4	0.11	0.19	0.12	35	0.39	0.065
CAG196340	Sediment	0.56	14.15	5.70	36.2	21	5.2	6.3	304	1.50	0.6	0.9	6.9	4.4	21.5	0.10	0.06	0.11	31	0.36	0.060
CAG196341	Sediment	0.53	13.66	5.23	35.6	14	4.7	6.5	271	1.40	0.6	0.7	<0.2	3.9	20.6	0.08	0.06	0.09	30	0.34	0.053
CAG196342	Sediment	0.74	17.98	5.09	46.4	17	6.1	8.8	407	1.71	1.1	0.7	<0.2	5.3	16.3	0.07	0.06	0.10	33	0.29	0.038
CAG196343	Sediment	0.54	11.73	6.25	39.2	23	8.0	7.5	277	1.69	2.1	0.3	0.4	3.1	16.6	0.05	0.12	0.08	35	0.32	0.046
CAG196344	Sediment	0.62	16.67	5.90	43.3	16	5.6	8.1	361	1.61	0.7	0.7	<0.2	4.7	18.6	0.08	0.05	0.09	32	0.33	0.037
CAG196345	Sediment	0.70	14.19	6.74	44.2	20	6.1	8.3	460	1.70	1.9	0.6	<0.2	3.8	16.0	0.08	0.09	0.09	32	0.29	0.045
CAG196346	Sediment	0.71	12.89	9.15	45.2	23	6.8	9.0	563	1.76	3.0	0.6	<0.2	4.2	17.2	0.09	0.10	0.09	33	0.32	0.048
CAG196351	Sediment	0.38	11.40	5.18	36.7	27	12.7	7.0	232	1.84	2.1	0.7	0.5	4.6	26.9	0.06	0.10	0.08	37	0.38	0.077
CAG196352	Sediment	0.65	10.77	7.04	51.5	47	13.3	9.8	397	2.57	4.8	0.6	1.4	3.7	22.4	0.07	0.12	0.08	54	0.41	0.076
CAG196353	Sediment	0.31	7.96	4.87	40.2	43	9.4	7.1	283	1.90	2.7	0.7	12.6	4.9	19.2	0.05	0.09	0.06	39	0.39	0.072
CAG196354	Sediment	0.48	6.57	5.79	35.1	62	7.4	6.0	280	1.76	2.4	0.5	<0.2	4.7	14.7	0.04	0.07	0.06	36	0.30	0.062
CAG196355	Sediment	0.35	4.03	5.56	23.2	21	3.1	2.8	147	1.07	1.4	0.5	0.6	3.8	11.3	0.06	0.08	0.19	25	0.22	0.041
CAG196356	Sediment	0.61	7.08	4.77	34.3	13	4.6	7.3	384	1.96	2.5	0.5	<0.2	5.0	17.2	0.06	0.09	0.07	45	0.30	0.056
CAG196357	Sediment	0.60	8.39	6.94	34.2	27	6.2	7.0	342	1.97	2.7	0.7	<0.2	4.7	18.9	0.07	0.10	0.06	45	0.42	0.083
CAG196358	Sediment	0.31	13.56	4.34	37.7	23	16.4	7.7	222	1.79	2.2	0.7	<0.2	4.0	31.7	0.05	0.12	0.07	33	0.44	0.092
CAG196359	Sediment	0.47	8.36	5.90	30.9	60	4.9	6.1	265	1.70	1.8	0.5	119.6	3.9	18.9	0.05	0.09	0.10	41	0.48	0.090
CAG196360	Sediment	0.48	8.90	6.41	37.8	31	6.2	7.4	263	1.83	2.0	0.5	0.5	3.5	19.4	0.05	0.09	0.08	43	0.42	0.074
CAG196361	Sediment	0.73	13.28	7.65	38.4	44	10.8	7.8	275	2.45	2.5	0.9	0.6	3.9	19.7	0.09	0.15	0.12	43	0.35	0.088
CAG196362	Sediment	0.94	12.89	9.25	40.7	52	10.0	8.6	382	2.40	2.2	0.7	0.4	3.0	17.9	0.10	0.11	0.11	43	0.35	0.089
CAG196363	Sediment	0.62	7.74	6.89	31.6	34	6.4	5.8	224	2.02	1.8	0.5	<0.2	2.6	13.0	0.07	0.10	0.08	39	0.37	0.105
CAG196364	Sediment	0.37	17.51	5.39	42.0	29	19.4	9.2	285	2.09	3.1	0.8	0.9	4.8	43.5	0.08	0.16	0.10	35	0.49	0.092

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Suite 410, 700 W. Pender Street
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Project: JP Ross
Report Date: February 21, 2012

CERTIFICATE OF ANALYSIS VAN11003671.2

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
CAG196331	Sediment	12.2	19.5	0.43	160.3	0.054	1	0.92	0.016	0.06	0.5	2.1	0.05	<0.02	22	0.1	<0.02	3.0
CAG196332	Sediment	12.1	21.0	0.49	186.0	0.062	1	1.03	0.018	0.10	0.3	2.3	0.07	<0.02	18	0.1	<0.02	3.1
CAG196333	Sediment	10.9	20.8	0.54	186.2	0.067	1	1.08	0.017	0.13	0.3	2.3	0.07	<0.02	16	0.2	<0.02	3.2
CAG196334	Sediment	11.4	20.2	0.44	162.6	0.058	<1	0.94	0.016	0.10	0.5	2.1	0.06	<0.02	13	<0.1	<0.02	2.8
CAG196335	Sediment	7.5	16.9	0.72	132.7	0.078	<1	1.25	0.010	0.32	0.2	2.2	0.12	<0.02	5	<0.1	0.03	3.3
CAG196336	Sediment	8.8	14.2	0.43	162.6	0.062	<1	1.08	0.015	0.12	0.1	2.2	0.06	<0.02	10	<0.1	<0.02	2.8
CAG196337	Sediment	12.8	25.6	0.54	271.7	0.073	2	1.46	0.013	0.10	0.1	3.0	0.09	0.04	26	0.3	0.02	4.2
CAG196338	Sediment	8.8	19.5	0.61	121.7	0.085	1	1.16	0.010	0.18	0.2	2.0	0.13	0.02	23	0.4	<0.02	3.1
CAG196339	Sediment	7.5	17.4	0.45	140.4	0.072	1	0.95	0.009	0.15	0.2	1.9	0.08	<0.02	9	0.1	<0.02	2.5
CAG196340	Sediment	8.0	14.4	0.46	66.0	0.074	<1	0.90	0.005	0.32	0.3	1.7	0.12	<0.02	6	<0.1	<0.02	2.4
CAG196341	Sediment	6.7	13.7	0.47	60.1	0.074	<1	0.85	0.004	0.34	0.1	1.6	0.12	<0.02	<5	<0.1	0.02	2.3
CAG196342	Sediment	7.5	16.0	0.66	86.8	0.091	<1	1.01	0.010	0.44	0.1	1.6	0.15	<0.02	<5	<0.1	<0.02	2.8
CAG196343	Sediment	5.8	21.0	0.59	83.5	0.082	<1	0.98	0.010	0.27	0.1	1.8	0.10	<0.02	7	<0.1	<0.02	2.8
CAG196344	Sediment	7.1	16.4	0.63	77.7	0.088	<1	0.98	0.009	0.41	0.1	1.7	0.15	<0.02	<5	0.2	<0.02	2.7
CAG196345	Sediment	6.6	15.9	0.59	94.5	0.079	1	0.95	0.009	0.33	0.1	1.6	0.12	<0.02	12	0.1	0.03	2.6
CAG196346	Sediment	7.5	15.7	0.57	101.7	0.075	<1	0.97	0.010	0.29	<0.1	1.8	0.11	<0.02	<5	0.1	<0.02	2.7
CAG196351	Sediment	12.9	22.2	0.49	119.0	0.083	1	1.10	0.012	0.23	0.6	2.4	0.12	<0.02	9	0.1	<0.02	3.8
CAG196352	Sediment	11.2	22.9	0.71	249.8	0.119	<1	1.67	0.015	0.45	<0.1	3.1	0.16	<0.02	21	0.3	0.03	5.3
CAG196353	Sediment	12.6	17.3	0.56	149.8	0.096	<1	1.29	0.011	0.31	0.1	2.6	0.13	<0.02	15	0.1	<0.02	4.4
CAG196354	Sediment	9.8	13.1	0.45	112.6	0.083	<1	1.09	0.010	0.27	<0.1	2.1	0.12	<0.02	12	0.1	<0.02	3.7
CAG196355	Sediment	8.8	6.9	0.25	41.7	0.054	<1	0.76	0.009	0.08	0.2	1.6	0.06	<0.02	15	<0.1	<0.02	2.8
CAG196356	Sediment	8.8	8.3	0.49	84.3	0.080	<1	1.05	0.011	0.29	<0.1	2.2	0.10	<0.02	9	<0.1	<0.02	3.5
CAG196357	Sediment	9.8	12.2	0.47	99.9	0.082	<1	1.10	0.015	0.24	0.2	2.7	0.10	<0.02	8	0.2	<0.02	3.7
CAG196358	Sediment	12.3	28.8	0.52	141.8	0.078	1	1.11	0.014	0.22	1.0	2.8	0.12	<0.02	20	<0.1	0.02	3.8
CAG196359	Sediment	7.7	10.3	0.43	101.0	0.072	<1	1.05	0.019	0.21	3.0	2.8	0.08	<0.02	9	0.1	0.02	3.4
CAG196360	Sediment	7.6	11.6	0.53	133.7	0.085	1	1.18	0.018	0.25	1.9	2.9	0.10	<0.02	16	<0.1	0.03	4.0
CAG196361	Sediment	13.8	29.4	0.87	203.7	0.082	1	1.34	0.009	0.23	0.2	4.3	0.10	<0.02	15	0.2	0.02	4.6
CAG196362	Sediment	11.4	26.8	0.88	242.7	0.085	1	1.35	0.008	0.27	<0.1	4.5	0.12	<0.02	16	0.2	0.03	4.9
CAG196363	Sediment	8.8	18.1	0.62	158.2	0.069	<1	1.03	0.010	0.19	0.1	3.5	0.08	<0.02	13	0.1	<0.02	3.8
CAG196364	Sediment	14.6	32.8	0.57	151.1	0.084	<1	1.24	0.013	0.27	0.8	3.1	0.14	<0.02	17	<0.1	<0.02	4.3

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Project: JP Ross
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CERTIFICATE OF ANALYSIS VAN11003671.2

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	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CAG196365	Sediment	0.38	10.54	8.79	35.3	31	12.8	7.2	258	1.95	2.4	0.7	<0.2	4.8	20.0	0.05	0.11	0.06	34	0.42	0.107
CAG196366	Sediment	0.30	11.38	8.49	47.5	39	17.8	10.6	299	2.32	4.3	0.8	17.5	5.9	56.7	0.08	0.12	0.09	32	0.56	0.081
CAG196367	Sediment	0.37	10.28	7.31	36.6	22	13.0	7.1	255	1.78	2.4	0.6	8.0	4.1	21.8	0.05	0.11	0.06	33	0.42	0.100
CAG196368	Sediment	0.32	9.79	5.52	33.3	25	12.6	6.8	257	1.68	2.4	0.6	0.8	3.9	22.1	0.05	0.11	0.06	30	0.44	0.106
CAG196369	Sediment	0.37	16.94	5.00	41.0	31	18.7	9.1	279	2.09	3.0	0.7	<0.2	4.6	41.9	0.06	0.13	0.08	35	0.45	0.081
CAG196370	Sediment	0.32	13.49	4.68	37.1	44	16.4	7.7	226	1.79	2.1	0.7	<0.2	4.0	32.6	0.07	0.12	0.24	33	0.48	0.101
CAG196371	Sediment	1.13	16.99	11.24	73.0	71	10.9	11.8	442	3.14	8.1	0.5	7.3	3.9	23.3	0.17	0.24	0.10	69	0.46	0.087
CAG196372	Sediment	0.51	15.85	5.91	51.4	48	7.8	9.8	356	2.54	4.6	0.5	1.8	2.8	25.4	0.07	0.24	0.07	55	0.46	0.083
CAG196373	Sediment	0.98	25.35	10.65	88.6	129	7.9	11.3	591	2.86	3.2	0.6	1.5	3.4	27.1	0.11	0.21	0.10	56	0.43	0.057
CAG196374	Sediment	0.60	11.84	7.04	45.4	41	6.0	8.0	309	2.13	3.5	0.5	4.6	3.1	21.9	0.10	0.20	0.05	45	0.40	0.074
CAG196375	Sediment	0.78	17.48	12.70	67.0	58	8.8	10.9	513	2.86	6.4	0.5	8.8	3.8	21.5	0.13	0.25	0.07	56	0.40	0.067
CAG196376	Sediment	0.50	22.06	8.57	60.4	52	7.5	11.3	580	2.63	4.0	0.6	1.0	6.2	20.3	0.10	0.18	0.06	54	0.38	0.058
CAG196377	Sediment	0.67	16.80	10.18	59.8	40	6.9	9.4	429	2.37	5.2	0.5	5.1	4.2	17.7	0.15	0.25	0.11	47	0.37	0.070
CAG196378	Sediment	0.64	19.96	7.85	62.3	35	9.5	10.0	463	2.53	5.3	0.5	4.0	4.2	18.6	0.12	0.27	0.08	48	0.37	0.065
CAG196379	Sediment	0.75	10.47	18.09	45.6	35	6.5	8.6	410	2.21	6.4	0.7	6.3	5.9	15.4	0.11	0.24	0.08	44	0.31	0.064
CAG196380	Sediment	0.65	18.13	8.15	58.9	34	10.0	10.1	410	2.40	4.4	0.5	1.1	4.2	18.2	0.10	0.20	0.05	47	0.39	0.077
CAG196381	Sediment	0.81	14.62	11.48	52.2	34	10.3	10.4	596	2.45	6.2	0.4	1.6	3.0	19.6	0.13	0.25	0.07	51	0.43	0.097
CAG196382	Sediment	1.17	42.08	9.88	72.6	63	13.3	11.3	512	2.86	5.6	0.5	1.3	3.5	20.6	0.09	0.23	0.06	63	0.38	0.073
CAG196383	Sediment	0.94	19.49	19.00	71.4	48	10.8	12.0	548	2.93	6.0	0.5	2.4	3.7	18.5	0.10	0.22	0.05	57	0.40	0.077
CAG196384	Sediment	0.55	12.34	11.79	49.9	31	8.0	7.8	340	2.00	3.8	0.5	0.4	3.8	19.1	0.09	0.19	0.05	40	0.43	0.094
CAG196385	Sediment	0.75	14.62	10.15	56.1	62	13.9	8.3	360	2.18	6.6	0.7	8.8	4.5	25.9	0.14	0.34	0.07	44	0.68	0.091
CAG196386	Sediment	0.80	12.46	15.72	59.4	38	9.5	9.1	391	2.43	6.3	0.7	0.8	5.9	20.2	0.11	0.27	0.05	48	0.39	0.078
CAG196387	Sediment	0.77	15.87	12.44	67.1	51	13.1	10.1	495	2.57	6.2	0.8	1.5	4.6	24.5	0.13	0.27	0.06	49	0.55	0.091
CAG196388	Sediment	0.72	13.52	12.10	54.1	34	9.4	9.5	403	2.23	5.6	0.8	10.0	6.0	22.8	0.11	0.22	0.06	41	0.43	0.086
CAG196389	Sediment	0.65	14.87	16.16	57.2	43	9.4	10.0	427	2.33	4.8	0.6	1.1	5.1	23.6	0.11	0.22	0.05	46	0.50	0.107
CAG196390	Sediment	0.76	16.40	32.54	64.2	66	10.0	10.3	553	2.53	6.5	0.6	1.1	4.2	20.1	0.13	0.25	0.06	49	0.42	0.076
CAG196391	Sediment	0.55	14.80	8.62	61.5	41	12.7	10.2	461	2.40	5.2	0.7	1.1	5.0	22.0	0.13	0.23	0.06	45	0.45	0.087
CAG196392	Sediment	0.61	14.37	16.57	60.6	73	14.2	8.7	327	1.92	4.2	1.2	9.7	4.5	34.8	0.11	0.23	0.07	41	0.55	0.085
CAG196393	Sediment	0.93	11.94	14.70	59.9	44	12.6	10.0	622	2.33	5.3	0.8	1.1	5.7	25.5	0.15	0.21	0.07	44	0.43	0.090
CAG196394	Sediment	0.56	10.84	8.80	51.7	60	11.3	8.0	411	1.92	3.9	0.7	66.9	4.6	25.3	0.12	0.20	0.06	40	0.43	0.096

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
CAG196365	Sediment	11.2	25.6	0.45	105.5	0.071	<1	1.06	0.012	0.23	0.5	2.4	0.11	<0.02	10	<0.1	<0.02	3.6
CAG196366	Sediment	15.8	26.9	0.55	119.4	0.084	<1	1.26	0.015	0.24	0.3	2.7	0.19	<0.02	8	<0.1	<0.02	4.4
CAG196367	Sediment	11.2	24.1	0.46	115.7	0.071	<1	1.04	0.012	0.21	0.3	2.3	0.12	<0.02	6	<0.1	<0.02	3.5
CAG196368	Sediment	11.3	23.7	0.43	112.6	0.067	<1	0.99	0.012	0.19	0.3	2.3	0.10	<0.02	13	0.1	<0.02	3.4
CAG196369	Sediment	13.9	31.6	0.58	149.5	0.082	<1	1.25	0.012	0.28	0.8	3.0	0.14	<0.02	16	<0.1	0.02	4.3
CAG196370	Sediment	12.5	29.3	0.51	140.9	0.076	<1	1.11	0.014	0.21	0.8	2.8	0.11	<0.02	9	<0.1	<0.02	4.0
CAG196371	Sediment	8.6	14.9	0.89	279.2	0.098	<1	1.75	0.015	0.30	<0.1	2.9	0.11	<0.02	11	0.2	0.03	5.0
CAG196372	Sediment	7.7	13.8	0.70	230.8	0.094	<1	1.40	0.010	0.30	0.1	2.2	0.09	<0.02	10	0.2	<0.02	3.9
CAG196373	Sediment	8.7	15.1	0.87	194.4	0.086	<1	1.65	0.005	0.40	<0.1	2.6	0.14	<0.02	20	0.2	0.05	5.1
CAG196374	Sediment	7.2	10.8	0.53	185.5	0.073	<1	1.19	0.011	0.21	0.1	2.3	0.08	<0.02	13	0.2	0.02	3.5
CAG196375	Sediment	8.4	13.7	0.75	224.0	0.094	<1	1.48	0.011	0.35	0.1	2.4	0.11	<0.02	18	0.1	0.02	4.3
CAG196376	Sediment	10.3	17.3	0.83	157.3	0.105	<1	1.48	0.006	0.52	0.1	2.4	0.19	<0.02	13	0.1	<0.02	4.6
CAG196377	Sediment	7.8	10.5	0.62	190.9	0.081	<1	1.21	0.008	0.30	<0.1	2.1	0.11	<0.02	10	0.1	0.02	3.8
CAG196378	Sediment	8.0	12.4	0.68	194.6	0.092	1	1.29	0.008	0.34	0.2	2.0	0.12	<0.02	13	0.1	0.02	3.8
CAG196379	Sediment	9.8	10.5	0.48	120.7	0.073	1	1.05	0.005	0.22	0.1	2.1	0.08	<0.02	15	0.1	<0.02	3.6
CAG196380	Sediment	8.6	15.4	0.72	167.4	0.094	1	1.26	0.007	0.36	0.2	2.0	0.13	<0.02	8	<0.1	<0.02	4.0
CAG196381	Sediment	6.7	31.5	0.60	237.1	0.075	<1	1.05	0.008	0.22	0.3	1.8	0.08	<0.02	11	0.3	0.02	3.1
CAG196382	Sediment	9.0	45.0	1.06	201.5	0.132	<1	1.54	0.005	0.57	0.2	1.9	0.17	0.06	14	0.2	0.03	4.0
CAG196383	Sediment	6.7	22.0	0.94	202.6	0.108	1	1.49	0.008	0.46	0.1	2.1	0.14	<0.02	8	0.1	0.03	4.2
CAG196384	Sediment	7.8	17.9	0.53	155.0	0.076	<1	0.96	0.007	0.24	0.2	1.9	0.08	<0.02	9	0.1	<0.02	3.2
CAG196385	Sediment	10.6	15.7	0.50	210.0	0.060	1	0.96	0.012	0.13	0.4	2.2	0.06	0.02	22	0.3	<0.02	3.3
CAG196386	Sediment	11.1	12.0	0.55	168.9	0.069	2	1.15	0.009	0.21	0.2	2.3	0.07	<0.02	12	0.1	<0.02	3.8
CAG196387	Sediment	10.0	16.4	0.72	222.3	0.098	2	1.31	0.011	0.35	0.2	2.2	0.11	0.02	11	0.3	0.03	4.1
CAG196388	Sediment	10.3	12.1	0.52	151.2	0.074	1	1.04	0.007	0.25	0.3	2.0	0.09	0.02	5	<0.1	<0.02	3.4
CAG196389	Sediment	9.2	17.5	0.63	181.3	0.089	1	1.22	0.009	0.28	0.2	2.4	0.09	<0.02	<5	0.2	0.03	3.8
CAG196390	Sediment	8.4	15.1	0.68	205.4	0.093	2	1.25	0.010	0.31	0.2	2.1	0.10	<0.02	15	0.3	<0.02	3.7
CAG196391	Sediment	10.4	16.4	0.63	190.8	0.090	1	1.25	0.011	0.27	0.3	2.3	0.09	<0.02	7	0.2	<0.02	3.9
CAG196392	Sediment	12.0	20.1	0.51	167.7	0.065	2	1.08	0.013	0.13	0.3	2.4	0.07	0.04	15	0.3	<0.02	3.4
CAG196393	Sediment	11.1	17.1	0.55	165.5	0.075	2	1.07	0.013	0.20	0.3	2.2	0.08	<0.02	6	0.2	<0.02	3.4
CAG196394	Sediment	10.2	17.3	0.44	150.7	0.061	<1	0.92	0.012	0.13	0.4	2.0	0.06	<0.02	6	0.2	<0.02	3.0

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Project: JP Ross
Report Date: February 21, 2012

CERTIFICATE OF ANALYSIS VAN11003671.2

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CAG196395	Sediment	3.59	18.70	49.74	95.1	172	33.1	12.8	684	3.26	17.1	1.0	1.8	4.5	26.5	0.20	0.56	0.33	83	0.40	0.123
CAG196396	Sediment	2.25	31.84	23.18	80.0	239	53.8	12.1	608	3.23	11.3	1.4	1.7	2.6	41.0	0.27	0.47	0.17	81	0.60	0.126
CAG196397	Sediment	1.58	18.07	24.49	178.4	230	45.3	16.1	1288	2.65	10.4	1.5	2.4	3.1	42.1	0.88	0.42	0.14	59	0.54	0.103
CAG196398	Sediment	3.22	20.30	68.60	240.2	495	61.2	19.9	3134	3.26	42.5	2.5	2.9	3.0	58.4	0.93	0.63	0.49	65	0.58	0.104
CAG196399	Sediment	2.78	26.06	93.30	211.0	303	56.2	19.6	1829	3.79	44.3	1.7	3.9	3.6	44.3	0.93	0.83	0.77	74	0.47	0.119
CAG196400	Sediment	2.06	24.66	52.14	137.2	179	43.6	15.3	1236	3.46	29.7	0.9	4.4	3.7	38.1	0.37	0.68	0.38	65	0.37	0.115
CAG196401	Sediment	1.15	16.15	28.61	93.0	182	30.7	10.6	769	2.36	13.0	0.8	93.7	2.9	35.0	0.23	0.31	0.16	50	0.46	0.140
CAG196402	Sediment	1.72	28.39	35.63	108.9	156	45.0	15.3	907	3.16	13.7	1.2	1.0	3.8	42.8	0.27	0.36	0.19	72	0.49	0.133
CAG196403	Sediment	0.85	19.16	8.61	56.3	85	15.9	10.0	468	2.72	4.2	0.7	2.8	4.1	23.3	0.09	0.12	0.09	60	0.49	0.083
CAG196404	Sediment	1.20	21.28	28.75	72.4	84	28.7	11.2	664	2.50	7.9	0.7	1.7	3.7	25.7	0.16	0.21	0.11	56	0.41	0.126
CAG196405	Sediment	1.25	19.30	25.78	73.3	153	29.0	11.4	975	2.48	6.9	0.7	73.5	3.5	29.4	0.19	0.19	0.11	57	0.42	0.121
CAG197013	Sediment	0.37	8.11	13.75	40.5	1002	6.7	8.5	354	1.96	3.3	0.4	3312	2.8	20.4	0.06	0.17	0.04	42	0.44	0.060
CAG197014	Sediment	0.34	8.21	17.73	35.2	171	9.1	6.8	270	1.63	2.7	0.3	600.4	2.6	17.8	0.07	0.13	0.03	38	0.45	0.076
CAG197015	Sediment	0.20	6.34	9.79	30.6	258	7.2	5.0	175	1.28	2.4	0.4	1095	2.3	16.9	0.07	0.14	0.03	30	0.41	0.080
CAG197016	Sediment	0.55	16.14	8.54	42.1	45	13.5	8.3	223	1.95	6.1	0.7	2.4	2.8	19.9	0.12	0.30	0.07	46	0.40	0.095
CAG197017	Sediment	0.30	11.81	6.44	42.4	109	12.6	6.8	201	1.68	3.3	0.5	48.0	2.7	19.8	0.09	0.22	0.12	37	0.36	0.075
CAG197018	Sediment	0.33	13.58	6.71	45.8	116	13.8	7.6	291	1.80	4.0	0.6	276.5	2.7	20.5	0.12	0.25	0.08	40	0.36	0.075
CAG197019	Sediment	0.33	8.87	14.62	44.7	37	6.2	6.3	223	1.52	3.0	0.5	1.1	3.8	18.8	0.05	0.15	0.06	28	0.33	0.058
CAG197020	Sediment	0.25	8.89	8.29	37.9	42	9.5	5.8	183	1.48	2.9	0.6	0.6	3.5	22.6	0.12	0.23	0.06	33	0.35	0.072
CAG197021	Sediment	0.77	16.66	8.65	68.3	114	11.6	11.1	530	2.96	4.7	1.2	1.0	4.6	31.3	0.10	0.20	<0.02	55	0.38	0.065
CAG197022	Sediment	1.30	21.13	22.37	69.4	100	64.9	10.8	448	2.45	7.5	0.9	4.6	3.4	20.6	0.19	0.23	0.08	63	0.41	0.129
CAG197023	Sediment	1.05	24.07	15.52	67.8	119	46.7	12.6	682	2.38	8.1	1.0	1.3	2.9	20.6	0.32	0.22	0.09	57	0.35	0.094
CAG197024	Sediment	1.24	20.58	17.22	61.0	160	35.0	10.8	491	2.77	11.6	0.8	109.0	3.1	20.3	0.16	0.28	0.08	58	0.37	0.129
CAG197025	Sediment	0.85	32.22	11.96	58.8	62	30.8	10.9	354	2.32	3.3	0.7	3.5	3.7	27.2	0.13	0.14	0.04	59	0.53	0.145
CAG197026	Sediment	1.14	32.45	20.96	51.5	408	46.6	11.5	454	2.34	5.6	1.7	272.7	2.8	26.8	0.15	0.20	0.05	63	0.80	0.295
CAG197027	Sediment	1.45	37.66	15.43	70.0	102	62.2	14.2	477	3.05	8.5	0.7	19.5	2.8	19.3	0.13	0.18	0.05	87	0.44	0.151
CAG197028	Sediment	1.36	42.26	19.19	71.0	100	68.0	15.7	544	2.96	7.0	0.8	2.7	3.0	27.6	0.14	0.20	0.06	85	0.72	0.235
CAG197029	Sediment	0.89	25.26	13.54	40.8	75	35.4	8.4	318	1.88	4.7	0.6	1.0	2.4	23.5	0.14	0.15	0.04	50	0.72	0.258
CAG197030	Sediment	0.91	20.06	14.76	56.3	97	29.7	9.5	367	2.22	4.8	1.0	53.0	4.1	49.5	0.12	0.21	0.06	53	0.56	0.149
CAG197031	Sediment	0.84	18.35	10.75	53.1	77	27.3	9.0	437	2.22	5.0	1.0	8.7	3.9	47.8	0.09	0.19	0.06	47	0.59	0.170

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
CAG196395	Sediment	15.6	54.7	0.82	178.5	0.079	2	1.53	0.008	0.08	0.4	2.9	0.09	<0.02	11	0.4	0.06	6.1
CAG196396	Sediment	16.7	81.0	1.00	320.3	0.061	2	1.90	0.006	0.08	0.3	4.4	0.09	0.03	28	0.6	0.06	6.8
CAG196397	Sediment	14.7	58.1	0.81	208.2	0.060	<1	1.67	0.008	0.06	0.4	3.2	0.10	0.03	22	0.5	0.03	5.7
CAG196398	Sediment	14.3	71.9	0.87	285.7	0.064	3	1.67	0.007	0.07	0.3	3.4	0.10	0.04	27	1.0	0.22	5.3
CAG196399	Sediment	13.6	70.6	0.94	240.6	0.063	4	1.66	0.007	0.09	0.3	3.4	0.10	0.03	17	0.9	0.24	5.6
CAG196400	Sediment	13.2	58.3	0.76	223.1	0.044	2	1.39	0.005	0.09	0.2	3.3	0.07	0.03	12	0.6	0.14	4.6
CAG196401	Sediment	11.3	41.1	0.57	180.1	0.048	2	1.15	0.006	0.08	0.3	2.4	0.06	0.02	12	0.5	0.06	3.9
CAG196402	Sediment	14.0	63.1	0.82	281.2	0.070	2	1.53	0.006	0.17	0.2	3.7	0.09	0.03	11	0.7	0.07	5.5
CAG196403	Sediment	11.7	28.2	0.79	259.3	0.093	<1	1.67	0.006	0.45	<0.1	3.5	0.13	<0.02	13	0.2	0.02	5.5
CAG196404	Sediment	10.2	41.9	0.68	201.7	0.062	1	1.24	0.006	0.23	0.2	2.9	0.08	<0.02	<5	0.4	0.04	4.3
CAG196405	Sediment	10.0	38.6	0.68	208.8	0.067	1	1.27	0.007	0.22	0.2	2.8	0.08	<0.02	9	0.4	0.04	4.5
CAG197013	Sediment	6.7	13.1	0.43	125.6	0.073	<1	1.20	0.018	0.12	<0.1	2.8	0.04	<0.02	59	0.2	<0.02	3.3
CAG197014	Sediment	5.5	16.0	0.39	143.9	0.055	1	0.99	0.023	0.09	<0.1	2.6	0.03	0.03	7	0.2	<0.02	2.8
CAG197015	Sediment	6.3	13.3	0.32	108.0	0.052	<1	0.85	0.015	0.07	0.2	2.3	0.03	<0.02	22	0.2	<0.02	2.5
CAG197016	Sediment	10.2	20.6	0.40	194.4	0.063	<1	1.15	0.012	0.07	0.2	2.8	0.04	<0.02	49	0.3	0.03	3.4
CAG197017	Sediment	9.3	20.6	0.42	188.9	0.066	<1	1.05	0.011	0.06	0.2	2.5	0.03	0.02	42	0.4	<0.02	3.2
CAG197018	Sediment	9.8	20.4	0.39	190.7	0.063	1	1.06	0.012	0.05	0.2	2.4	0.05	<0.02	14	0.3	0.02	3.2
CAG197019	Sediment	8.3	11.3	0.38	107.2	0.066	<1	0.99	0.009	0.15	0.1	1.9	0.07	<0.02	10	0.1	0.02	2.9
CAG197020	Sediment	10.3	15.8	0.33	145.4	0.064	<1	0.99	0.014	0.07	0.2	2.2	0.04	<0.02	18	<0.1	0.07	2.8
CAG197021	Sediment	17.1	21.6	0.67	226.0	0.112	<1	1.90	0.014	0.28	0.1	3.1	0.10	0.03	47	0.2	0.08	4.8
CAG197022	Sediment	14.7	106.2	0.92	307.8	0.103	1	1.57	0.011	0.24	0.1	3.3	0.13	0.03	18	<0.1	0.08	5.2
CAG197023	Sediment	14.3	69.9	0.75	307.9	0.108	1	1.57	0.010	0.24	<0.1	3.3	0.13	0.03	32	0.5	0.06	5.7
CAG197024	Sediment	11.6	54.0	0.64	310.5	0.086	1	1.29	0.009	0.20	0.2	2.8	0.09	0.02	14	0.3	0.05	4.2
CAG197025	Sediment	11.7	60.6	0.78	370.6	0.103	<1	1.40	0.011	0.35	0.2	3.7	0.13	0.06	6	0.7	0.05	4.7
CAG197026	Sediment	10.7	88.5	0.73	352.2	0.072	1	1.13	0.009	0.23	<0.1	3.4	0.09	0.14	8	0.7	0.05	3.8
CAG197027	Sediment	10.7	117.1	1.17	471.6	0.108	<1	1.58	0.010	0.37	<0.1	4.3	0.13	0.06	8	0.7	0.08	5.1
CAG197028	Sediment	11.7	122.4	1.15	547.8	0.108	1	1.57	0.012	0.38	<0.1	4.4	0.14	0.10	<5	0.7	0.09	5.3
CAG197029	Sediment	9.3	66.0	0.64	316.9	0.057	<1	0.93	0.009	0.21	<0.1	2.8	0.07	0.10	6	0.6	0.07	2.9
CAG197030	Sediment	13.3	49.2	0.66	312.0	0.092	<1	1.23	0.014	0.22	0.3	2.9	0.09	<0.02	11	0.2	0.02	4.1
CAG197031	Sediment	13.9	45.1	0.60	302.9	0.081	<1	1.19	0.013	0.18	0.4	2.6	0.09	<0.02	14	0.1	0.06	3.8

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	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
CAG197032	Sediment	0.92	24.01	20.44	48.8	315	34.5	9.1	337	2.20	6.6	1.2	444.0	3.0	32.8	0.14	0.20	0.06	54	0.82	0.283
CAG197033	Sediment	0.94	19.57	26.11	57.5	147	26.0	10.7	533	2.23	6.1	1.0	185.2	3.4	30.4	0.13	0.35	0.08	48	0.55	0.098

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
CAG197032	Sediment	11.4	60.1	0.64	327.3	0.076	1	1.06	0.011	0.20	0.2	3.0	0.09	0.30	11	1.0	0.07	3.6
CAG197033	Sediment	11.1	38.6	0.61	272.5	0.070	2	1.20	0.019	0.12	0.2	2.9	0.06	0.03	18	0.3	0.04	3.6

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Report Date: February 21, 2012

QUALITY CONTROL REPORT VAN11003671.2

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
CAG196315	Sediment	0.14	5.99	3.28	15.2	13	15.0	4.5	130	0.93	0.9	0.2	<0.2	1.1	22.5	0.03	0.06	<0.02	23	0.30	0.060
REP CAG196315	QC	0.14	6.43	3.40	16.1	14	16.4	4.8	139	0.95	0.9	0.2	<0.2	1.1	22.1	0.04	0.06	<0.02	24	0.34	0.062
CAG196335	Sediment	0.80	10.30	6.28	55.4	29	7.9	9.3	368	2.36	3.5	0.5	3.4	3.3	19.3	0.08	0.18	0.09	46	0.41	0.080
REP CAG196335	QC	0.75	9.41	6.26	50.9	25	7.6	9.0	366	2.23	3.3	0.4	0.9	3.6	19.3	0.07	0.16	0.10	44	0.39	0.086
CAG196339	Sediment	0.56	9.65	11.63	42.9	43	8.7	8.0	517	1.74	3.8	0.5	2.6	2.9	21.4	0.11	0.19	0.12	35	0.39	0.065
REP CAG196339	QC	0.60	9.89	11.35	40.9	47	8.1	7.7	493	1.68	3.8	0.5	9.0	2.9	21.8	0.12	0.20	0.11	34	0.40	0.069
CAG196367	Sediment	0.37	10.28	7.31	36.6	22	13.0	7.1	255	1.78	2.4	0.6	8.0	4.1	21.8	0.05	0.11	0.06	33	0.42	0.100
REP CAG196367	QC	0.33	9.92	7.12	32.8	22	12.6	6.7	250	1.72	2.3	0.6	<0.2	3.9	20.7	0.05	0.10	0.06	31	0.40	0.096
CAG196393	Sediment	0.93	11.94	14.70	59.9	44	12.6	10.0	622	2.33	5.3	0.8	1.1	5.7	25.5	0.15	0.21	0.07	44	0.43	0.090
REP CAG196393	QC	0.85	12.67	14.32	60.7	51	13.2	10.3	637	2.45	5.6	0.8	18.2	5.7	26.6	0.17	0.22	0.07	48	0.46	0.094
CAG196401	Sediment	1.15	16.15	28.61	93.0	182	30.7	10.6	769	2.36	13.0	0.8	93.7	2.9	35.0	0.23	0.31	0.16	50	0.46	0.140
REP CAG196401	QC	1.38	17.98	31.52	100.8	171	34.1	11.9	878	2.55	14.5	1.0	48.3	3.2	39.7	0.29	0.36	0.17	55	0.49	0.148
Reference Materials																					
STD DS8	Standard	13.77	115.9	128.3	318.0	1786	40.2	7.9	629	2.62	26.2	3.1	123.3	7.6	68.5	2.61	5.61	7.30	44	0.77	0.084
STD DS8	Standard	12.66	100.4	116.1	293.5	1708	35.3	7.1	587	2.33	22.1	2.5	104.3	6.3	59.9	2.16	5.12	5.54	38	0.69	0.074
STD DS8	Standard	11.94	99.67	115.0	296.7	1670	34.1	6.8	580	2.45	24.9	2.6	108.3	6.4	65.8	2.35	5.68	6.56	42	0.72	0.087
STD DS8	Standard	13.39	120.9	114.9	311.5	1707	38.5	7.9	625	2.56	24.9	2.6	109.7	6.4	59.8	2.32	5.06	5.60	44	0.75	0.084
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Report Date: February 21, 2012

QUALITY CONTROL REPORT VAN11003671.2

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																		
CAG196315	Sediment	3.3	25.3	0.30	85.9	0.038	<1	0.74	0.016	0.04	<0.1	1.6	0.02	<0.02	5	<0.1	<0.02	1.9
REP CAG196315	QC	3.3	26.7	0.30	86.1	0.041	<1	0.76	0.017	0.04	<0.1	1.7	0.03	<0.02	7	<0.1	<0.02	2.0
CAG196335	Sediment	7.5	16.9	0.72	132.7	0.078	<1	1.25	0.010	0.32	0.2	2.2	0.12	<0.02	5	<0.1	0.03	3.3
REP CAG196335	QC	7.5	16.8	0.67	125.7	0.071	<1	1.17	0.009	0.29	0.4	2.2	0.11	<0.02	8	<0.1	<0.02	3.1
CAG196339	Sediment	7.5	17.4	0.45	140.4	0.072	1	0.95	0.009	0.15	0.2	1.9	0.08	<0.02	9	0.1	<0.02	2.5
REP CAG196339	QC	7.7	17.3	0.44	133.2	0.071	2	0.92	0.008	0.14	0.3	1.8	0.07	<0.02	10	0.2	0.02	2.5
CAG196367	Sediment	11.2	24.1	0.46	115.7	0.071	<1	1.04	0.012	0.21	0.3	2.3	0.12	<0.02	6	<0.1	<0.02	3.5
REP CAG196367	QC	10.6	23.2	0.43	110.3	0.067	<1	1.00	0.011	0.21	0.4	2.3	0.11	<0.02	23	<0.1	<0.02	3.5
CAG196393	Sediment	11.1	17.1	0.55	165.5	0.075	2	1.07	0.013	0.20	0.3	2.2	0.08	<0.02	6	0.2	<0.02	3.4
REP CAG196393	QC	11.3	18.9	0.58	174.9	0.078	<1	1.14	0.014	0.22	0.2	2.4	0.09	<0.02	13	0.2	<0.02	3.7
CAG196401	Sediment	11.3	41.1	0.57	180.1	0.048	2	1.15	0.006	0.08	0.3	2.4	0.06	0.02	12	0.5	0.06	3.9
REP CAG196401	QC	12.7	47.5	0.62	211.3	0.057	2	1.27	0.007	0.09	0.3	2.9	0.07	0.02	17	0.5	0.07	4.3
Reference Materials																		
STD DS8	Standard	16.4	124.7	0.65	278.7	0.123	3	0.99	0.100	0.45	3.0	2.2	5.58	0.17	195	4.9	5.07	4.6
STD DS8	Standard	14.7	117.2	0.58	257.6	0.105	2	0.92	0.096	0.40	2.9	2.1	5.24	0.15	186	5.1	5.01	4.7
STD DS8	Standard	15.0	109.1	0.61	282.7	0.102	3	0.92	0.089	0.41	2.9	2.0	5.40	0.16	179	5.2	4.74	4.4
STD DS8	Standard	14.8	118.7	0.63	269.1	0.118	2	0.98	0.098	0.44	2.9	2.0	5.25	0.17	175	5.3	4.75	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1

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